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- (71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]**  
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **PASQUIER, Laurent** [FR/FR]; c/o SPID, 156 Boulevard Haussmann, F-75008 Paris (FR). **DURANTON, Marc** [FR/NL]; c/o SPID, 156 Bd Haussmann, F-75008 PARIS (FR). **ZHAO, Qin** [FR/FR]; c/o SPID, 156 Bd Haussmann, F-75008 PARIS (FR).
- (74) Agent: **CHAFFRAIX, Jean**; Société Civile SPID, 156 Boulevard Haussmann, F-75008 Paris (FR).

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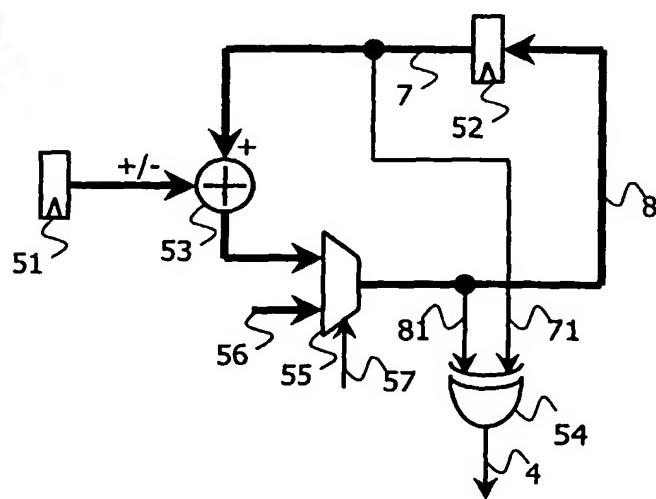
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## Declaration under Rule 4.17:

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[Continued on next page]

(54) Title: DIGITAL SAMPLING FREQUENCY CONVERTER



(57) Abstract: The present invention relates to a converter converting an input digital signal into an output digital signal. Said converter comprises in particular a set of shift registers able to contain samples of the input or output digital signal. It also comprises a calculation unit able to supply a shift signal (4) to said set of registers. Said calculation unit comprises a first storage unit (51) able to contain a value of a conversion ratio or of its inverse, so that the value stored is between 0 and 1. It also comprises a second storage unit (52) able to contain, at a cycle time  $i+1$ ,  $i$  being an integer, a future signal (8) equal to a sum of a current signal (7) contained in the second unit at a cycle time  $i$  and of the content of the first storage unit. The shift signal then results from an exclusive OR function (54) between a most significant bit of the current signal (71) and a most significant bit of the future signal (81).



CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT,  
LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ,  
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# INTERNATIONAL SEARCH REPORT

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**A. CLASSIFICATION OF SUBJECT MATTER**  
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According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H03H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data bases consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/184275 A1 (MOLTER DAVID ET AL) 5 December 2002 (2002-12-05) paragraphs '0040!, '0065! - '0095!; figures 10,13	1-6
A	EP 0 695 032 A (MATSUSHITA ELECTRIC IND CO LTD) 31 January 1996 (1996-01-31) page 3, line 28 - page 5, line 47; figure 3	1,2,5,6

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

D/L PINTA BALLE.., L

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